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RECEIVED CENTRAL FAX CENTER

IN THE CLAIMS

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Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for producing methane gas from organic wastes, comprising: treating organic wastes with at least one of supercritical water and sub-critical water to convert the organic wastes into low molecular weight substances;

separating a water phase from the treated substances into an oil phase, a water phase, and a solid phase, so that the water phase is collected; and

subjecting the collected water phase to methane fermentation.

- 2. (Original) The method according to claim 1, wherein the treatment for conversion into low molecular weight substances is a treatment with sub-critical water.
- 3. (Original) The method according to claim 1, wherein in the treatment with sub-critical water, a treatment temperature is 440 to 553 K, and a treatment pressure is 0.8 to 6.4 MPa.
- 4. (Original) The method according to claim 1, wherein a time taken for the treatment for conversion into low molecular weight substances is 1 to 20 minutes.
- 5. (Original) The method according to claim 1, wherein the treatment for conversion into low molecular weight substances is performed continuously.
- 6. (Canceled)
- 7. (Previously presented) The method according to claim 1, wherein the water phase contains organic acid.

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- 8. (Original) The method according to claim 7, wherein the organic acid includes acetic acid.
- 9. (Original) The method according to claim 1, wherein a time for the methane fermentation is in a range of 5 to 48 hours.
- 10. (Original) The method according to claim 1, wherein carbon digestion efficiency in the methane fermentation is 90% or more.
- 11. (Original) The method according to claim 1, wherein the organic waste is activated sludge.
- 12. (Original) The method according to claim 1, further comprising separating and collecting a useful material generated in the treatment for conversion into low molecular weight substances.
- 13. (Original) The method according to claim 12, wherein the useful material generates at least one of phosphoric acid, organic acid, fatty acid, amino acid, and sugar.
- 14. (Original) The method according to claim 12, wherein by adjusting at least one of a treatment temperature and a treatment time in the treatment for conversion into low molecular weight substances, the useful material is allowed to be generated selectively.